## Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of Claims:

Claims 1-7 (cancelled)

8 (Currently amended). An isolated DNA molecule consisting of a sequence coding for a polypeptide tolerogen which suppresses the autoimmune response of an individual to acetylcholine receptor, wherein said polypeptide tolerogen tolerogen is selected from the group consisting of:

- (i) a polypeptide consisting of amino acid residues 1121 of SEQ ID NO:2;
- (ii) a polypeptide consisting of amino acid residues 122-210 of SEQ ID NO:2;
- (iii) a polypeptide  $H\alpha 1-205$  consisting of amino acid residues 1-205 of SEQ ID NO:2; and
- (iv) a polypeptide Hα1 210 consisting of amino acid residues 1 210 of SEQ ID NO:2; and
- (v) a polypeptide as defined in (i)-[[(iv)]](iii), fused to an additional polypeptide at its N- and/or C-termini, wherein a human acetylcholine receptor  $\alpha$ -subunit portion, consisting of amino acid residues 1-121 of SEQ ID NO:2, amino acid residues 122-210 of SEQ ID NO:2, or amino acid residues 1-

205 of SEQ ID NO:2 or amino acid residues 1 210 of SEQ ID NO:2 of said fused polypeptide does not assume the native conformation of the  $\alpha$  subunit of the human acetylcholine receptor as determined from a binding assay to  $\alpha$ -bungarotoxin, where weaker binding to  $\alpha$ -bungarotoxin when compared to the corresponding portion from the acetylcholine receptor (AchR)  $\alpha$ -subunit extracellular domain indicates said fused polypeptide has not assumed the native conformation of the  $\alpha$ -subunit of AchR,

with the proviso that said polypeptide tolerogen does not consist of residues 1-210 of SEQ ID NO:2.

9(Previously presented). An isolated DNA molecule according to claim 8, which is selected from the group consisting of:

- (i) a DNA molecule consisting of the nucleotide sequence of nucleotides 1 to 363 of SEQ ID NO:1;
- (ii) a DNA molecule consisting of the nucleotide sequence of nucleotides 364 to 630 of SEQ ID NO:1;
- (iii) a DNA molecule consisting of nucleotides 1 to 615 of SEQ ID NO:1; and
- (iv) a DNA molecule which codes for a polypeptide encoded by the DNA sequence of (i), (ii) or (iii).

Claims 10 and 11 (Cancelled).

12(Previously presented). An isolated DNA molecule consisting of the nucleotide sequence corresponding to nucleotides 1 to 363 of SEQ ID NO:1.

Claim 13 (Cancelled).

14 (Previously presented). An isolated DNA molecule according to claim 9, which consists of the nucleotide sequence of nucleotides 364 to 630 of SEQ ID NO:1.

15(Previously presented). An isolated DNA molecule according to claim 36, wherein said additional polypeptide is glutathione S-transferase (GST) and is fused to the human acetylcholine receptor  $\alpha$  subunit portion at its N- and /or C-termini.

16 (Previously presented). A replicable expression vector comprising a DNA molecule according to claim 8.

17(Previously presented). An isolated prokaryotic or isolated eukaryotic host cell transformed with the replicable expression vector of claim 16.

18 (Previously presented). A process for preparing a polypeptide which suppresses the autoimmune response of an individual to acetylcholine receptor, comprising:

- (i) culturing a host cell of claim 17 under conditions promoting expression; and
  - (ii) isolating the expressed polypeptide.

Claims 19-24 (Cancelled)

25 (Currently amended). An isolated DNA according to claim 8, wherein said polypeptide toleragen tolerogen consists of amino acid residues 1-121 of SEQ ID NO:2.

Claim 26 (Cancelled).

27 (Currently amended). An isolated DNA according to claim 8, wherein said polypeptide toleragen tolerogen consists of amino acid residues 122-210 of SEQ ID NO:2.

Claims 28 and 29 (Cancelled).

30 (Currently amended). An isolated DNA according to claim 8, wherein said polypeptide is said fusion polypeptide as defined in [[(v)]](iv).

31 (Previously presented). An isolated DNA according to claim 30, wherein said additional polypeptide is glutathione Stransferase.

Claims 32-35 (Cancelled).

36 (Currently amended). An isolated DNA molecule coding for a polypeptide toleragen tolerogen which suppresses the autoimmune response of an individual to acetylcholine receptor, wherein said polypeptide toleragen tolerogen is either (a) a polypeptide consisting of amino acid residues 1-121 of SEQ ID NO:2 fused to an additional polypeptide at its N- and/or Ctermini, (b) a polypeptide consisting of amino acid residues 1-205 fused to an additional polypeptide at its N- and/or Ctermini, or (c) a polypeptide  $H\alpha 1-210$  consisting of amino acid residues 1-210 of SEQ ID NO:2 fused to an additional polypeptide at its N- and/or C-termini, wherein a human acetylcholine receptor  $\alpha$ -subunit portion, consisting of amino acid residues 1-121 of SEQ ID NO:2, amino acid residues 1-205 of SEQ ID NO:2, or amino acid residues 1-210 of SEQ ID NO:2, of said fused polypeptide does not assume the native conformation of the  $\alpha$ subunit of the human acetylcholine receptor as determined from a binding assay to  $\alpha$ -bungarotoxin, where weaker binding to  $\alpha$ bungarotoxin when compared to the corresponding portion from the acetylcholine receptor (AchR)  $\alpha$ -subunit extracellular domain indicates said fused polypeptide has not assumed the native conformation of the  $\alpha$ -subunit of AchR, with the proviso that said polypeptide tolerogen does not consist of residues 1-210 of SEQ ID NO:2.

37 (Previously presented). A replicable expression vector comprising a DNA molecule according to claim 36.

38 (Previously presented). An isolated prokaryotic or isolated eukaryotic host cell transformed with the replicable expression vector of claim 37.

39 (Previously presented). A process for preparing a polypeptide which suppresses the autoimmune response of an individual to acetylcholine receptor, comprising:

- (i) culturing a host cell of claim 38 under conditions promoting expression; and
  - (ii) isolating the expressed polypeptide.

40 (Currently amended). An isolated DNA according to claim 8, wherein said polypeptide toleragen tolerogen consists of amino acid residues 1-205 of SEQ ID NO:2.

41(Previously presented). An isolated DNA according to claim 9, which consists of the nucleotide sequence of nucleotides 1 to 615 of SEQ ID NO:1.